

REMARKS

Claims 1-14 are all the claims pending in the application. Claims 1-14 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,563,868 B1 (hereinafter, “Zhang”). Applicant submits the following in traversal.

Applicant submits that claim 1 is patentable because a prima facie case of obviousness has not been established. For example, Zhang does not teach or suggest the section setting unit as claimed.

In Zhang, a DSP processor does not predict a multi-path (n) exceeding a threshold value. That is, FIGS. 6a and 7b of the present invention show the function of determining the multi-path based on a peak value except ‘0’, while Zhang does not disclose the corresponding feature.

The section setting unit of the present invention sets a filter tap section to include a predetermined number of filter taps corresponding to the predicted multi-path thereby to produce a set predetermined section. The DSP processor of Zhang, however, only updates and controls the coefficients of the filter taps as mentioned by the Examiner. For example, in the present invention, a filter tap section (I2) is set by considering the filter tap margin, as shown in FIGS. 6b, 6c, 7b, and 7c, but Zhang does not disclose such a feature. Accordingly, Zhang does not teach or suggest the section setting unit as recited in claim 1.

Therefore, Zhang does not teach that the set tap sections are made repetitive and the multi-path ($n-m/2 \sim n+m/2$, $2n-m/2 \sim 2n+m/2$, and $3n-m/2 \sim 3n+m/2$) corresponding to the n is filtered to update only the selected tap.

Additionally, in Zhang, taps associated with a predetermined group of the coefficients are adjusted, but the connection between the taps and group is not disclosed. Therefore, it is difficult to easily derive the present invention from Zhang.

Applicant makes similar changes to the other independent claims 4 and 9 and submits that claims 4 and 9 are patentable for reasons similar to those submitted for claim 1.

The remaining dependent claims 2 and 3, which depend from claim 1, claims 5-8, which ultimately depend from claim 4, and claims 10-14, which ultimately depend from claim 9, are patentable for at least the reasons submitted for their respective base claims.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

/Seok-Won Stuart Lee/

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE

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CUSTOMER NUMBER

Seok-Won Stuart Lee
Limited Recognition No. L0212

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